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In the Claims

Please cancel Claims 1-24 and 29-49. Claims 25 and 28 have been amended and are presented below in amended form, and Claims 50-96 have been added. In accordance with 37 C.F.R. § 1.121(c)(1)(ii), amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (page xii).

- 25. (Amended) A method of detecting or identifying an inhibitor of a mammalian GPR-9-6 receptor comprising:
 - a) combining an agent to be tested, a ligand or promoter of mammalian GPR-9-6 and a cell expressing mammalian GPR-9-6 under conditions suitable for detecting a ligand- or promoter-induced response; and
 - determining the ability of the test agent to inhibit said ligand- or promoter-induced response,
 wherein inhibition of said ligand- or promoter-induced response by the agent is

wherein inhibition of said ligand- or promoter-induced response by the agent is indicative that the agent is an inhibitor.

28. (Amended) The method of Claim 25 wherein said ligand- or promoter-induced response is chemotaxis.

- 50. (New) The method of Claim 25 wherein said ligand- or promoter-induced response is Ca²⁺ flux.
- 51. (New) The method of Claim 25 wherein said cell is a recombinant cell.
- 52. (New) The method of Claim 25 wherein said cell is a cell line.
- 53. (New) The method of Claim 52 wherein said cell line is selected from the group consisting of MOLT-4 and MOLT-13.

- 54. (New) The method of Claim 25 wherein said mammalian GPR-9-6 is a human GPR-9-6.
- 55. (New) The method of Claim 25 wherein said mammalian GPR-9-6 comprises the amino acid sequence of SEQ ID NO:2.
- 56. (New) The method of Claim 25 wherein said test agent is an organic compound.
- 57. (New) The method of Claim 25 wherein said test agent is an antibody or antigenbinding fragment of an antibody.
- 58. (New) The method of Claim 25 wherein said test agent is a peptide.
- 59. (New) The method of Claim 25 wherein said test agent is a nucleic acid.
- 60. (New) A method of detecting or identifying an inhibitor of a mammalian GPR-9-6 receptor comprising:
 - a) combining an agent to be tested, a ligand or promoter of mammalian GPR-9-6 and a cell expressing mammalian GPR-9-6 or functional variant thereof under conditions suitable for detecting a ligand- or promoter-induced response, wherein said functional variant binds TECK and mediates TECK-induced signaling or a TECK-induced cellular response; and
 - b) determining the ability of the test agent to inhibit said ligand- or promoterinduced response,

wherein inhibition of said ligand- or promoter-induced response by the agent is indicative that the agent is an inhibitor.

61. (New) The method of Claim 60 wherein said ligand or promoter of mammalian GPR-9-6 is TECK.

- 62. (New) The method of Claim 60 wherein said cell is a recombinant cell.
- 63. (New) The method of Claim 60 wherein said cell is a cell line.
- 64. (New) The method of Claim 63 wherein said cell line is selected from the group consisting of MOLT-4 and MOLT-13.
- 65. (New) The method of Claim 60 wherein said ligand- or promoter-induced response is chemotaxis.
- 66. (New) The method of Claim 60 wherein said ligand- or promoter-induced response is Ca^{2+} flux.
- 67. (New) The method of Claim 60 wherein said mammalian GPR-9-6 or functional variant thereof is a human GPR-9-6 or functional variant thereof.
- 68. (New) The method of Claim 60 wherein said mammalian GPR-9-6 or functional variant is a polypeptide comprising the amino acid sequence of SEQ ID NO:2 or a functional variant of said polypeptide.
- 69. (New) The method of Claim 60 wherein said test agent is an organic compound.
- 70. (New) The method of Claim 60 wherein said test agent is an antibody or antigen-binding fragment of an antibody.
- 71. (New) The method of Claim 60 wherein said test agent is a peptide.
- 72. (New) The method of Claim 60 wherein said test agent is a nucleic acid.

- 73. (New) A method of detecting or identifying an inhibitor of a mammalian GPR-9-6 receptor comprising:
 - a) combining an agent to be tested, a ligand or promoter of mammalian GPR-9-6 and a cell expressing a protein comprising GPR-9-6 under conditions suitable for detecting a ligand- or promoter-induced response, wherein said GPR-9-6 binds TECK and comprises an amino acid sequence that is at least about 90% similar to the amino acid sequence of SEQ ID NO:2; and
 - b) determining the ability of the test agent to inhibit said ligand- or promoterinduced response,

wherein inhibition of said ligand- or promoter-induced response by the agent is indicative that the agent is an inhibitor.

- 74. (New) The method of Claim 73 wherein said ligand or promoter of mammalian GPR-9-6 is TECK.
- 75. (New) The method of Claim 73 wherein said cell is a recombinant cell.
- 76. (New) The method of Claim 73 wherein said cell is a cell line.
- 77. (New) The method of Claim 76 wherein said cell line is selected from the group consisting of MOLT-4 and MOLT-13.
- 78. (New) The method of Claim 73 wherein said ligand- or promoter-induced response is chemotaxis.
- 79. (New) The method of Claim 73 wherein said ligand- or promoter-induced response is Ca²⁺ flux.
- 80. (New) The method of Claim 73 wherein said GPR-9-6 is a human GPR-9-6.

- 81. (New) The method of Claim 73 wherein said GPR-9-6 comprises the amino acid sequence of SEQ ID NO:2.
- 82. (New) The method of Claim 73 wherein said test agent is an organic compound.
- 83. (New) The method of Claim 73 wherein said test agent is an antibody or antigen-binding fragment of an antibody.
- 84. (New) The method of Claim 73 wherein said test agent is a peptide.
- 85. (New) The method of Claim 73 wherein said test agent is a nucleic acid.
- 86. (New) A method of detecting or identifying an inhibitor of a human GPR-9-6 receptor comprising:
 - a) combining an agent to be tested, TECK and a cell expressing a protein comprising human GPR-9-6 under conditions suitable for detecting a ligand- or promoterinduced response; and
 - b) determining the ability of the test agent to inhibit said response,
 wherein inhibition of said ligand- or promoter-induced response by the agent is
 indicative that the agent is an inhibitor.
- 87. (New) The method of Claim 86 wherein said cell is a recombinant cell.
- 88. (New) The method of Claim 86 wherein said cell is a cell line.
- 89. (New) The method of Claim 88 wherein said cell line is selected from the group consisting of MOLT-4 and MOLT-13.

- 90. (New) The method of Claim 86 wherein said ligand- or promoter-induced response is chemotaxis.
- 91. (New) The method of Claim 86 wherein said ligand- or promoter-induced response is Ca²⁺ flux.
- 92. (New) The method of Claim 86 wherein said human GPR-9-6 comprises the amino acid sequence of SEQ ID NO:2.
- 93. (New) The method of Claim 86 wherein said test agent is an organic compound.
- 94. (New) The method of Claim 86 wherein said test agent is an antibody or antigen-binding fragment of an antibody.
- 95. (New) The method of Claim 86 wherein said test agent is a peptide.
- 96. (New) The method of Claim 86 wherein said test agent is a nucleic acid.

REMARKS

The subject application is a divisional of U.S. Application No. 09/266,464, filed March 11, 1999. Original Claims 1-24 and 29-49 have been cancelled and new Claims 50-96 have been added. Claims 25-28 and new Claims 50-96 are directed to the invention of Group IV, a method of detecting an inhibitor of GPR-9-6, as defined in the Restriction Requirement dated October 4, 2000 (Paper No. 9), which issued in the parent application (U.S. Application No. 09/266,464).

Amendments to the Specification

In accordance with 37 C.F.R. § 1.121(b)(1)(i and ii), this Amendment includes instructions to replace certain paragraphs of the specification with replacement paragraphs.

The subject divisional application is being filed with Formal Drawings. In the Formal